

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PATENT DRAWINGS

Approved for use through 10/31/02. GSA GEN-10522

Patent and Trademark Office, US DEPARTMENT OF COMMERCE

## Declaration and Power of Attorney for Patent Application

### 特許出願宣言書及び委任状

#### Japanese Language Declaration

##### 日本語宣言書

私は、以下に記名された発明者として、ここに以下の通り宣言する。

As an above-named inventor, I hereby declare that

私の住所、郵便の宛先として同様に、私の氏名の傍に記載された通りである。

My residence, post office address, and citizenship are as stated next to my name.

以下の名称の発明について、發明者権利は記載され、且つ發明が承認されている発明者として、私は、最初、且つ最もつとめの発明者である（複数の氏名が記載されている場合）か、或いは最初、且つ最もつとめの共同発明者である（複数の氏名が記載されている場合）と申立てます。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHOD OF UPGRADEING BIOMASS,  
UPGRADED BIOMASS, BIOMASS WATER  
SLURRY AND METHOD OF PRODUCING  
SAME, UPGRADED BIOMASS GAS, AND  
METHOD OF GASIFYING BIOMASS**

上記発明の明細書はここに添付されているが、下記の欄がチェックされている場合は、この限りでない。

the specification of which is attached hereto unless the following box is checked.

の前に出席され、

この出願の米国出願番号またはPCT国際出願番号は、

であり、且つ

の前に署名された出願（該当する場合）

私は、上記の署名前に上記で署名された、特許請求範囲を含む明細書を確認し、且つ内容を理解していることを次に表明する。

私は、法律規則第37条第56項に定義される、内規等について必要な情報を開示する義務があることを認める。

[X] was filed on April 25, 2003,

as United States Application Number or

PCT International Application Number

PCT/JP03/05362 and was amended on

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 35, Code of Federal Regulations, Section 1.56

BEST AVAILABLE COPY

(1) 02-008/014-000-000  
Approved for use through 10/31/02. GSA GEN REG 012  
Patent and Trademark Office, 1125 KIPPS PEAK DR., MC 2000  
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

## Japanese Language Declaration

(日本語宣言)

私は、ここに、以下に記載したの国での特許出願または米国外での特許、或いは米国外の少なくとも一国を指定している米国外別のうち最も早い登録によるPCT国際出願について、同第119条(d)の規定は第365条の項に於いて優先権を主張せんとする。後発出願と並ぶ本出願の出願日よりも前の出願日で有する他の国での出願を主張する場合の出願の出願日、或いはPCT国際出願について、いかなる出願も、下記の特許チケットすることによりました。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

## Prior Foreign Application(s)

外國での既存出願

Patent 2001-328363

(Number)

(特許)

Japan

(Country)

(日本)

25/10/2001

(Day/Month/Year Filed)

(出願日)

Patent 2002-234987

(Number)

(特許)

Japan

(Country)

(日本)

12/08/2002

(Day/Month/Year Filed)

(出願日)

私は、ここに、下記のいかなる米国外出願を出願せりとも、そのうち最も早い登録による出願の利益を主張する。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

Application No.	Filing Date
(出願番号)	(出願日)
(Application No.)	(Filing Date)
(出願番号)	(出願日)

私は、ここに、下記のいかなる米国外出願についても、その米国外出願を主張せしめ、又は信を付すいかなるPCT国際出願についても、その出願を最も早い登録による出願を主張する。また、本出願の各特許請求項の範囲の主張が、米国外出願の第112条第1段に規定された趣旨や、先行する米国外出願又はPCT国際出願に表示されていない場合はにおいては、その先行出願の出願日と本国内出願またはPCT国際出願との間の期間中に入手された情報で、先ず規則第37条第4項1、5項に定義された如きに同様の重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application No.	Filing Date	Status Patented, Pending, Abandoned
(出願番号)	(出願日)	(現状：特許登録、待機中、放棄)
(Application No.)	(Filing Date)	(Status Patented, Pending, Abandoned)
(出願番号)	(出願日)	(現状：特許登録、待機中、放棄)

私は、ここに表明された私自身の知識に従わる陳述が眞理である、且つ情報と信手することに至るべき陳述が、真実であると信じられることを宣言し、さらには、故意に虚偽の陳述などを行った場合は、米国外出願の第100条第1項に違反し、罰金または拘禁、若しくは手の拘束による处罚され、またそのような結果による处罚の時は、本出願またはそれに付随して施行されるいかなる处罚も、その有効性を問問せざることを理解した上で本述が行なわれたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

PJO 318-108, 05/03

Approved for use through 10/31/2002 102-01051-0952  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Japanese Language Declaration  
(日本語宣誓書)

申告書： 私は本出願を審査する手続を行い、且つ米国特許商標庁と  
同様の手続を経るため、現名された発明者として、下記のア  
ドresser及びまたは代理士を任命する。（氏名及び登録番号を記載する  
こと）

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint  
the following attorney(s) and/or agent(s) to prosecute this application  
and transact all business in the Patent and Trademark Office  
connected therewith. *(list name and registration number).*

Practitioners associated with Customer Number 07278-

8587878  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Send Correspondence to:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

連絡先登録番号：（氏名及び電話番号）  
Joseph R. Robinson (212) 527-7783

Direct Telephone Calls to: *(name and telephone number)*  
Joseph R. Robinson (212) 527-7783

第一または第一発明者氏名 発明者の署名 住所 国籍 郵便の宛先	Full name of sole or first inventor Chikai SUYAMA Inventor's signature <i>Chikai Suyama</i> Date August 5, 2005 Residence Yokohama-shi, Japan Citizenship Japan Post Office Address c/o JGC Corporation, 3-1, Minatomirai 2-chome, Nishi-ku, Yokohama-shi, Kanagawa-ken, Japan
---	---

第二共同発明者がいる場合、その氏名 第二共同発明者の署名 住所 国籍 郵便の宛先	Full name of second joint inventor, if any Shinichi TOKUDA Second inventor's signature <i>Shinichi Tokuda</i> Date August 5, 2005 Residence Yokohama-shi, Japan Citizenship Japan Post Office Address c/o JGC Corporation 3-1, Minatomirai 2-chome, Nishi-ku, Yokohama-shi, Kanagawa-ken, Japan
--	--

(第三以下の共同発明者についても同様に記載し、署名を  
すること)(Supply similar information and signature for third and subsequent  
joint inventors.)

PPO/SB/10-0000000000  
Approved for use through 10-31-02 GPO: 04-01-0032  
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

**Japanese Language Declaration**  
(日本語証書)

申告者： 私は本出願を審査する手続を行い、且つ共同特許出願官との全ての業務を遂行するため、見なされた発明者として、上記の共同及び/又は代理権者を任命する。 (氏名及び登録番号を記載すること)

**POWER OF ATTORNEY** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (*list name and registration number*)

Practitioners associated with Customer Number 07278:

名称  
**DARBY & DARBY P.C.**  
P.O. Box 5257  
New York, New York 10150-5257

Send Correspondence to:  
**DARBY & DARBY P.C.**  
P.O. Box 5257  
New York, New York 10150-5257

直接電話連絡 (氏名及び電話番号)  
**Joseph R. Robinson (212) 527-7783**

Direct Telephone Calls to: (*name and telephone number*)  
**Joseph R. Robinson (212) 527-7783**

<b>第三または第四共同発明者氏名</b>		Full name of third joint inventor
発明者の署名	日付	Masao TSURUI Third inventor's signature Date
住所	Higashimatsubara	Residence Ibaraki-ken, Japan
情報		Citizenship Japan
郵便の宛先		Post Office Address c/o JGC Corporation, 3-1, Minatomirai 2-chome, Nishi-ku, Yokohama-shi Kanagawa-ken, Japan

<b>第二共同発明者がいる場合、その氏名</b>		Full name of fourth joint inventor, if any
第二共同発明者の署名	日付	Yoshinori SUTO Fourth inventor's signature Date
住所		Residence Yokohama-shi, Japan
情報		Citizenship Japan
郵便の宛先		Post Office Address c/o JGC Corporation, Research & Development Center, 2205, Narita-cho, Oarai-machi, Higashi Ibaraki-gun, Ibaraki-ken, Japan

PTO-23 (Rev. 09-99)  
Approved for use through 10-04-09. GPO: 2006-0932  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Japanese Language Declaration

(日本語宣誓書)

本件は、私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、現名された発明者として、上記の九種上及び/または代理事を担当する。(氏名及び登録番号を記載すること)

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (first name and registration number)

Practitioners associated with Customer Number 07278:

代理人  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Send Correspondence to:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

直接電話番号 (氏名及び電話番号)  
Joseph R. Robinson (212) 527-7783

Direct Telephone Call to: (name and telephone number)  
Joseph R. Robinson (212) 527-7783

第一主たる第一発明者氏名	Full name of fifth joint inventor Koiji TAMURA	
発明者の署名	日付	Signature of fifth inventor's Date
住所	Residence Koiji Ibaraki, August 5, 2005	
国籍	Citizenship Japan	
郵便の宛先	Post Office Address c/o JGC Corporation, Research & Development Center, 2205, Narita-cho, Oarai-machi, Higashi Ibaraki-gun, Ibaraki-ken, Japan	
第二共同発明者がない場合、その氏名	Full name of sixth joint inventor, if any Tsutomu KATAGIRI	
第二共同発明者の署名	日付	Sixth inventor's signature Date
住所	Residence Tsutomu Katagiri, August 5, 2005	
国籍	Citizenship Japan	
郵便の宛先	Post Office Address c/o JGC Corporation, Research & Development Center, 2205, Narita-cho, Oarai-machi, Higashi Ibaraki-gun, Ibaraki-ken, Japan	

DEPARTMENT OF COMMERCE  
Approved for use through 10/31/02 GPO: 0651-9682  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Japanese Language Declaration

(日本語宣言書)

申告者、私は本出願を審査する手続を行い、且つ本項特許商標局との全ての交渉を進行するために、現名された発明者として、下記の方法及びまたは在理上を任せる。〔氏名及び登録番号を記載する〕

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: *list name and registration number(s).*

Practitioners associated with Customer Number 07278;

本代理人宛  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Send Correspondence to:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

直接電話番号 (氏名及び電話番号)  
Joseph R. Robinson (212) 527-7783

Direct Telephone Calls to: *name and telephone number*  
Joseph R. Robinson (212) 527-7783

第七主たる被取扱い発明者氏名 発明者の署名 住所 国籍 郵便の宛先	Full name of seventh joint inventor Teruo NAGAI Seventh inventor's signature <i>Teruo Nagai</i> August 5, 2005 Residence Tokyo, Japan Citizenship Japan Post Office Address c/o The Tokyo Electric Power Company, Incorporated, 1-3, Uchisaiwai-cho 1-chome, Chiyoda-ku, Tokyo, Japan
---	---

第八共同発明者がいる場合、その氏名 第二共同発明者の署名 住所 国籍 郵便の宛先	Full name of eighth joint inventor, if any Jin OGAWA Eighth inventor's signature <i>Jin Ogawa</i> August 5, 2005 Residence Tokyo, Japan Citizenship Japan Post Office Address c/o The Tokyo Electric Power Company, Incorporated, 1-3, Uchisaiwai-cho 1-chome, Chiyoda-ku, Tokyo, Japan
--	---

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

UPT-2005-0001-00000  
Approved for use through 10-31-02. OMB 0651-0002  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

**Japanese Language Declaration**  
(日本語証書)

多田 謙一 は本出願を審査する手続を行い、且つ本特許事務所と  
の全ての取扱を担当するならに、既名された発明者として、上記の方  
が主たるまたは在現下を担当する。(氏名及び登録番号を記載する  
こと)

**POWER OF ATTORNEY.** As a named inventor, I hereby appoint  
the following attorney(s) and/or agent(s) to prosecute this application  
and transact all business in the Patent and Trademark Office  
connected therewith: *(list name and registration number).*

Practitioners associated with Customer Number 07278:

多田 謙一  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

直接電話番号 (氏名及び電話番号)  
Joseph R. Robinson (212) 527-7783

Send Correspondence to:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Direct Telephone Calls to: *(name and telephone number)*  
Joseph R. Robinson (212) 527-7783

<b>第一または第一発明者氏名</b>		Full name of ninth joint inventor	
発明者の署名	日付	Takeshi YAMAGUCHI	Date
住所	Residence <i>Takeshi Yamaguchi</i> , August 5, 2006		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address c/o The Tokyo Electric Power Company, Incorporated, 1-3, Uchizatani-cho 1-chome, Chiyoda ku, Tokyo, Japan		
<b>第二または第二発明者氏名</b>		Full name of tenth joint inventor, if any	
第二発明者の署名	日付	Tenth Inventor's signature	Date
住所	Residence		
国籍	Citizenship Japan		
郵便の宛先	Post Office Address		

## Japanese Language Declaration

(日本語宣誓書)

## Supplemental Priority Data Sheet

D/8

## Additional prior foreign applications:

Number (番号)	Country (国名)	Day/Month/Year Filed (出願年月日)	Priority Claimed (優先権主張)
Patent 2002-332190	Japan	15/11/2002	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

## Additional provisional applications:

Application Number (出願登録番号)	Filing Date (出願日)

## Additional U.S. applications:

Application Number (出願番号)	Filing Date (出願日)	Status: Patented, Pending, Abandoned (現況: 特許取得済、保択中、放棄済)

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

**BLACK BORDERS**

**IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

**FADED TEXT OR DRAWING**

**BLURRED OR ILLEGIBLE TEXT OR DRAWING**

**SKEWED/SLANTED IMAGES**

**COLOR OR BLACK AND WHITE PHOTOGRAPHS**

**GRAY SCALE DOCUMENTS**

**LINES OR MARKS ON ORIGINAL DOCUMENT**

**REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

**OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**